ELSEVIER

Thin Solid Films 351 (1999) 313–314

thin solid films

Author Index of Volume 351

Aegerter, M.A., 79, 109, 115, 119, 125, 290
Amberg-Schwab, S., 198
Amlung, M., 132
Ando, E., 301, 308
Arpac, E., 209
Awazu, K., 91

Böhmer, M.R., 95
Battaglin, C., 176
Beneking, C., 241, 247
Benmalek, M., 190
Bernards, T.N.M., 95
Biederman, H., 151
Bisht, H., 109
Bläsi, B., 73
Bräuer, G., 27, 146, 158, 254
Bruch, J., 27

Caccavale, F., 176
Chiba, F., 85
Cho, Y.J., 274

Döll, W., 73
Danson, N., 32
Danzebrink, R., 115
De Bosscher, W., 15
Derks, P.J.A., 284
Dimitriou, R., 190, 204
Dolukhanyan, T., 274
Dreibholz, J., 73
Duparré, A., 141

Endres, K., 132
Eun, H.-T., 109

Filonov, K., 190, 204
Finley, J.J., 264
Frammelsberger, W., 241
Frantzen, A., 225
Friedrich, I., 184
Fries, K., 230
Fujishima, A., 260
Fukarek, W., 151
Geyer, R., 241
Gier, A., 132
Glaubitt, W., 73
Goebbert, C., 79
Gombert, A., 73
Grosse, P., 184
Guo, P., 290
Gust, W., 190, 204

Haas, K.-H., 198
Han, J.H., 274
Hashimoto, K., 260
Hayashi, A., 57
Hayashi, Y., 57, 235, 301
Heinzel, A., 73
Heister, U., 27
Herlitze, L., 184
Hirashima, H., 91, 220
Hong, B.S., 274
Honjo, Y., 212
Horie, N., 235
Hosono, H., 137
Houben, L., 247
Howson, R.P., 32
Huter, M., 141

Imai, H., 91, 220
Ishikawa, H., 212

Jakobs, S., 141

Karlsson, B., 170
Kawazoe, H., 137
Kim, S.T., 274
Kluth, O., 241, 247
Koizumi, S., 260
Kokubu, Y., 1
Krempel-Hesse, J., 27
Kunze, N., 216
Kurita, M., 137

Löffl, A., 247

Lammers, J.H., 95
Lechner, P., 241
Lechner, W., 53
Lievens, H., 15
Lindenstruth, M., 230

Müggenburg, T., 184
Müller, R., 180
Makabe, T., 37
Malkomes, N., 42
Matthée, T., 42
May, C., 48
McCurdy, R.J., 66
Mehrtens, A., 109
Menelle, A., 176
Mennig, M., 99, 132, 225, 230
Minabe, M., 260
Mitani, A., 61
Mitsui, A., 57
Miyazaki, M., 308
Montecchi, M., 176
Morimoto, T., 61, 279
Mutter, C., 95

Nakajima, A., 260
Nakano, N., 37
Nichelatti, E., 176
Nicoletti, F., 176
Nonninger, R., 79
Nostell, P., 170

Ohsaki, H., 1, 57, 235
Oliveira, P.W., 99, 225
Ono, Y., 235
Oyama, T., 235

Pütz, J., 119
Park, M.S., 274
Pascual, L., 103
Pešička, J., 151
Peeters, M.P.J., 95
Pfäfflin, U., 146
Pistner, J., 146, 158
Polato, P., 176
Pulker, H.K., XI, 141, 53

Rech, B., 241, 247
Richter, U., 42
Roos, A., 170
Rose, K., 73, 198
Rübel, H., 241
Ruske, M., 146, 158, 254

Safi, I., 32
Schöpe, G., 247
Schade, H., 241
Schilling, H., 254
Schirra, H., 209
Schmidt, H., XIII, 79, 99, 132, 209, 216, 225, 230
Schock, H.W., 247
Schuler, T., 125
Selhofer, H., 180
Sepeur, S., 209, 216
Shidoji, E., 37
Shimizu, J., 301
Shimizu, K., 220
Slavínská, D., 151
Sporn, D., 73
Staedler, T., 42
Strümpfel, J., 48
Straumal, B., 190, 204
Strauss, G.N., 53
Stundžia, V., 151
Sung, C., 274
Suzuki, K., 8
Suzuki, S., 194, 301
Szczyrbowski, J., 27, 146, 158, 254
Szyszka, B., 164

Tachibana, Y., 57, 235
Teschner, G., 27
Tohge, N., 85
Tomonaga, H., 61
Tsukuma, K., 220
van Nijnatten, P.A., 295

PII: S0040-6090(99)00415-0

Vaněček, M., 151
Vergöhl, M., 42
Vershinin, N., 190, 204
Villegas, M.A., 103

Wagner, H., 241, 247
Wallace, G., 21
Wang, R., 260
Watanabe, K., 212
Watanabe, T., 260
Wegner, I., 209
Weigert, M., 158
Weis, H., 184
Werner, B., 216
Wieder, S., 241, 247
Winkler, R.-P., 209
Wittwer, V., 73
Wuttig, M., 184

Yoneda, T., 279

Žalman, J., 151
Zemek, J., 151
Zhao, G., 85
Zmelty, A., 254

ELSEVIER

Thin Solid Films 351 (1999) 315–320

thin solid films

Subject Index of Volume 351

Abrasion resistance
UV curable hard coatings on plastics, 216
Absorbing layer
A new layer system of anti-reflective coating for cathode ray tubes, 235
Absorption
Gas pressures influence on the optical and mechanical properties of Ta_2O_5 films produced by reactive low voltage ion plating (RLVIP), 53
Adhesion
Internal stress and adhesion of thin films sputtered onto glass by an in-line sputtering system, 194
Three-layer broad-band antireflective coating on web, 212
Aluminum
Hall current accelerator for pre-treatment of large area glass sheets, 190
Antimony
Wet chemical deposition of ATO and ITO coatings using crystalline nanoparticles redispersable in solutions, 79
Anti-reflective coating
A new layer system of anti-reflective coating for cathode ray tubes, 235
Antireflex
Optical and mechanical properties of sol–gel antireflective films for solar energy applications, 170
Atomic force microscopy
Surface roughness characterization of smooth optical films deposited by ion plating, 141
Auger electron spectroscopy
Masked deposition of decorative coatings on large area glass and plastic sheets, 204

Bending strength
Enhancement of fracture strength of cutted plate glass by the application of SiO_2 sol–gel coatings, 132

Carbon
Composite germanium/C:H films prepared by DC unbalanced magnetron sputtering, 151
Cathodes
Advances in magnetron sputter sources, 15
Chemical vapor deposition
Successful implementation methods of atmospheric CVD on a glass manufacturing line, 66
Coating materials
Functionalized coating materials based on inorganic-organic polymers, 198
Coatings
Advances in magnetron sputter sources, 15
High rate reactive sputtering using gas pulsing: a technique for the creation of films onto large, flat substrates, 32
Photosensitive gel films prepared by the chemical modification and their application to surface-relief gratings, 85
Interference coatings on glass based on photopolymerizable nanomer material, 99
Sol–gel silica coatings doped with a pH-sensitive chromophore, 103
Comparison of spray pyrolyzed FTO, ATO and ITO coatings for flat and bent glass substrates, 109
Comparison of pure and mixed coating materials for AR coatings for use by reactive evaporation on glass and plastic lenses, 180
Aqueous wet coatings for transparent plastic glazing, 209
Low-temperature synthesis of anatase thin films on glass and organic substrates by direct deposition from aqueous solutions, 220
Sputtered tin silicon oxide films for durable solar control coatings, 301
Moisture degradation mechanism of silver-based low-emissivity coatings, 308
Composite
Composite germanium/C:H films prepared by DC unbalanced magnetron sputtering, 151
Condensation
UV curable hard coatings on plastics, 216
Conductivity
Numerical simulation of the discharge in d.c. magnetron sputtering, 37
Wet chemical deposition of ATO and ITO coatings using crystalline nanoparticles redispersable in solutions, 79
Corrosion
Masked deposition of decorative coatings on large area glass and plastic sheets, 204
Cross-link density
The effect of the solvent on the cross-link density of SiO_2 coatings, 95
Crystallization
Excimer laser crystallization of amorphous indium–tin oxide thin films and application to fabrication of Bragg gratings, 137
Curing
Curing of sol–gel coatings on television tubes, 284

Density
Gas pressures influence on the optical and mechanical properties of Ta_2O_5 films produced by reactive low voltage ion plating (RLVIP), 53
Deposition process

PII: S0040-6090(99)000416-2

Global market and technology trends on coated glass for architectural, automotive and display applications, 1
TwinMag™II: attempts to improve an excellent sputter tool, 27
Successful implementation methods of atmospheric CVD on a glass manufacturing line, 66
Comparison of spray pyrolyzed FTO, ATO and ITO coatings for flat and bent glass substrates, 109
Low-temperature synthesis of anatase thin films on glass and organic substrates by direct deposition from aqueous solutions, 220

Electrical properties
Global market and technology trends on coated glass for architectural, automotive and display applications, 1
Optical, electrical and structural properties of sol gel ZnO:Al coatings, 125
Electrical properties and measurements
Transparent and conductive aluminum doped zinc oxide films prepared by mid-frequency reactive magnetron sputtering, 164
Electrochemistry
Spin deposition of MoS_x thin films, 119
Ellipsometry
Ex situ and in situ spectroscopic ellipsometry of MF and DC-sputtered TiO_2 and SiO_2 films for process control, 42
Etching
Texture etched ZnO:Al coated glass substrates for silicon based thin film solar cells, 247

Fine-patterning
Photosensitive gel films prepared by the chemical modification and their application to surface-relief gratings, 85
Fluorides
Low-temperature synthesis of anatase thin films on glass and organic substrates by direct deposition from aqueous solutions, 220

Germanium
Composite germanium/C:H films prepared by DC unbalanced magnetron sputtering, 151
Glass
Global market and technology trends on coated glass for architectural, automotive and display applications, 1
State of the art in large area vacuum coatings on glass, 8
Enhancement of fracture strength of cutted plate glass by the application of SiO_2 sol–gel coatings, 132
Hall current accelerator for pre-treatment of large area glass sheets, 190
Masked deposition of decorative coatings on large area glass and plastic sheets, 204
Endurable water-repellent glass for automobiles, 274
Glass coating
Successful implementation methods of atmospheric CVD on a glass manufacturing line, 66
Glass stress
Curing of sol–gel coatings on television tubes, 284
Glazing
Predictive algorithms for directional optical properties of coated glazing for building and automotive applications, 295

Hard coating
UV curable hard coatings on plastics, 216
Heat reflector
New low emissivity coating based on TwinMag® sputtered TiO_2 and Si_3N_4 layers, 254
Heat treatment
Advanced characterization tools for thin films in low-*E* systems, 184
Curing of sol–gel coatings on television tubes, 284
Holographic grating
Subwavelength-structured antireflective surfaces on glass, 73
Hybrid organic-inorganic
Deposition of micropatterned coating using an ink-jet technique, 115
Hydrophobicity
Endurable water-repellent glass for automobiles, 274

Indium Tin oxide
State of the art in large area vacuum coatings on glass, 8
ITO coating by reactive magnetron sputtering–comparison of properties from DC and MF processing, 48
Wet chemical deposition of ATO and ITO coatings using crystalline nanoparticles redispersable in solutions, 79
Comparison of spray pyrolyzed FTO, ATO and ITO coatings for flat and bent glass substrates, 109
Excimer laser crystallization of amorphous indium–tin oxide thin films and application to fabrication of Bragg gratings, 137
Ink-jet
Deposition of micropatterned coating using an ink-jet technique, 115
Inorganic-organic polymers
Functionalized coating materials based on inorganic-organic polymers, 198
Interference layers
Interference coatings on glass based on photopolymerizable nanomer material, 99
Ion bombardment
Numerical simulation of the discharge in d.c. magnetron sputtering, 37
Ion plating
Gas pressures influence on the optical and mechanical properties of Ta_2O_5 films produced by reactive low voltage ion plating (RLVIP), 53
Surface roughness characterization of smooth optical films deposited by ion plating, 141
IR reflective coatings
Multilayer NIR reflective coatings on transparent plastic substrates from photopolymerizable nanoparticulate sols, 225

Large area coating
TwinMag™II: attempts to improve an excellent sputter tool, 27
New low emissivity coating based on TwinMag® sputtered TiO_2 and Si_3N_4 layers, 254
Laser irradiation
Alternative modification methods for sol–gel coatings of silica, titania and silica–titania using ultraviolet irradiation and water vapor, 91
Excimer laser crystallization of amorphous indium–tin oxide

thin films and application to fabrication of Bragg gratings, 137
Light scattering
Surface roughness characterization of smooth optical films deposited by ion plating, 141
Recent developments of silicon thin film solar cells on glass substrates, 241
Texture etched ZnO:Al coated glass substrates for silicon based thin film solar cells, 247
Low emissivity coating
New low emissivity coating based on TwinMag® sputtered TiO_2 and Si_3N_4 layers, 254
Heat treatment and bending of low-*E* glass, 264
Low-*E* systems
Advanced characterization tools for thin films in low-*E* systems, 184

Magnetron
Numerical simulation of the discharge in d.c. magnetron sputtering, 37
Mechanical durability
Mechanical durability of water repellent glass, 279
Microlens
Deposition of micropatterned coating using an ink-jet technique, 115
Mixed oxides
Comparison of pure and mixed coating materials for AR coatings for use by reactive evaporation on glass and plastic lenses, 180
MoS_2
Spin deposition of MoS_x thin films, 119
Multilayers
Optical, electrical and structural properties of sol gel ZnO:Al coatings, 125
Characterisation of antireflective TiO_2//SiO_2 coatings by complementary techniques, 176
Three-layer broad-band antireflective coating on web, 212
Heat treatment and bending of low-*E* glass, 264

Nanoparticles
Wet chemical deposition of ATO and ITO coatings using crystalline nanoparticles redispersable in solutions, 79
Multilayer NIR reflective coatings on transparent plastic substrates from photopolymerizable nanoparticulate sols, 225
UV curable hard coatings on plastics, 216

Optical coating
Global market and technology trends on coated glass for architectural, automotive and display applications, 1
State of the art in large area vacuum coatings on glass, 8
TwinMag™II: attempts to improve an excellent sputter tool, 27
Ex situ and in situ spectroscopic ellipsometry of MF and DC-sputtered TiO_2 and SiO_2 films for process control, 42
ITO coating by reactive magnetron sputtering–comparison of properties from DC and MF processing, 48
Ultraviolet ray absorbing coatings on glass for automobiles, 61
Subwavelength-structured antireflective surfaces on glass, 73
Properties of SnO_2 films prepared by DC and MF reactive sputtering, 146
Properties of SiO_2 and Si_3N_4 layers deposited by MF twin magnetron sputtering using different target materials, 158
Transparent and conductive aluminum doped zinc oxide films prepared by mid-frequency reactive magnetron sputtering, 164
Optical and mechanical properties of sol–gel antireflective films for solar energy applications, 170
Advanced characterization tools for thin films in low-*E* systems, 184
Three-layer broad-band antireflective coating on web, 212
New low emissivity coating based on TwinMag® sputtered TiO_2 and Si_3N_4 layers, 254
Curing of sol–gel coatings on television tubes, 284
Predictive algorithms for directional optical properties of coated glazing for building and automotive applications, 295
Optical properties
Spin deposition of MoS_x thin films, 119
Optical and mechanical properties of sol–gel antireflective films for solar energy applications, 170
Comparison of pure and mixed coating materials for AR coatings for use by reactive evaporation on glass and plastic lenses, 180
Advanced characterization tools for thin films in low-*E* systems, 184
Switchable glazing using a suspension of TiO_xN_y particles, 290
Predictive algorithms for directional optical properties of coated glazing for building and automotive applications, 295
Optical spectroscopy
Sol–gel silica coatings doped with a pH-sensitive chromophore, 103
Optoelectronic devices
Photosensitive gel films prepared by the chemical modification and their application to surface-relief gratings, 85
Excimer laser crystallization of amorphous indium–tin oxide thin films and application to fabrication of Bragg gratings, 137
Organic-inorganic hybrids
Development of fast switching photochromic coatings on transparent plastics and glass, 230
Organometallic vapor deposition
Successful implementation methods of atmospheric CVD on a glass manufacturing line, 66

Photo polymerization
Multilayer NIR reflective coatings on transparent plastic substrates from photopolymerizable nanoparticulate sols, 225
Photochromic coatings
Development of fast switching photochromic coatings on transparent plastics and glass, 230
Photoconductivity
Photocatalytic activity and photoinduced hydrophilicity of titanium dioxide coated glass, 260
Photopolymerization
Interference coatings on glass based on photopolymerizable nanomer material, 99
Photosensitivity

Photosensitive gel films prepared by the chemical modification and their application to surface-relief gratings, 85
Photovoltaics
Recent developments of silicon thin film solar cells on glass substrates, 241
Physical vapor deposition (PVD)
State of the art in large area vacuum coatings on glass, 8
Advances in magnetron sputter sources, 15
ITO coating by reactive magnetron sputtering–comparison of properties from DC and MF processing, 48
Plasma processing
Design considerations for the AC/DC C-MAG® deposition source and power supply system, 21
Hall current accelerator for pre-treatment of large area glass sheets, 190
Plasma processing and deposition
Advances in magnetron sputter sources, 15
High rate reactive sputtering using gas pulsing: a technique for the creation of films onto large, flat substrates, 32
Composite germanium/C:H films prepared by DC unbalanced magnetron sputtering, 151
Polymerisation
UV curable hard coatings on plastics, 216
Polymers
Hall current accelerator for pre-treatment of large area glass sheets, 190
Porous sol–gel layer
Subwavelength-structured antireflective surfaces on glass, 73
Printing
Deposition of micropatterned coating using an ink-jet technique, 115

Reactive evaporation
Comparison of pure and mixed coating materials for AR coatings for use by reactive evaporation on glass and plastic lenses, 180
Reflection specification
Three-layer broad-band antireflective coating on web, 212
Refractive index
Gas pressures influence on the optical and mechanical properties of Ta_2O_5 films produced by reactive low voltage ion plating (RLVIP), 53
Resistively
ITO coating by reactive magnetron sputtering–comparison of properties from DC and MF processing, 48
Three-layer broad-band antireflective coating on web, 212

Scanning electron microscopy
Enhancement of fracture strength of cutted plate glass by the application of SiO_2 sol–gel coatings, 132
Sensor
Sol–gel silica coatings doped with a pH-sensitive chromophore, 103
Silane
Aqueous wet coatings for transparent plastic glazing, 209
UV curable hard coatings on plastics, 216
Silanol group
Mechanical durability of water repellent glass, 279
Silica sol–gel
Endurable water-repellent glass for automobiles, 274
Silicon
Recent developments of silicon thin film solar cells on glass substrates, 241
Silicon nitride
Properties of SiO_2 and Si_3N_4 layers deposited by MF twin magnetron sputtering using different target materials, 158
Silicon oxide
Ex situ and in situ spectroscopic ellipsometry of MF and DC-sputtered TiO_2 and SiO_2 films for process control, 42
Alternative modification methods for sol–gel coatings of silica, titania and silica–titania using ultraviolet irradiation and water vapor, 91
Sol–gel silica coatings doped with a pH-sensitive chromophore, 103
Properties of SiO_2 and Si_3N_4 layers deposited by MF twin magnetron sputtering using different target materials, 158
Characterisation of antireflective TiO_2//SiO_2 coatings by complementary techniques, 176
Comparison of pure and mixed coating materials for AR coatings for use by reactive evaporation on glass and plastic lenses, 180
Aqueous wet coatings for transparent plastic glazing, 209
Three-layer broad-band antireflective coating on web, 212
Mechanical durability of water repellent glass, 279
Sputtered tin silicon oxide films for durable solar control coatings, 301
Silver
Moisture degradation mechanism of silver-based low-emissivity coatings, 308
Simulation
Numerical simulation of the discharge in d.c. magnetron sputtering, 37
^{29}Si-NMR
The effect of the solvent on the cross-link density of SiO_2 coatings, 95
SiN_x
A new layer system of anti-reflective coating for cathode ray tubes, 235
SiO_2
A new layer system of anti-reflective coating for cathode ray tubes, 235
Sol–gel
The effect of the solvent on the cross-link density of SiO_2 coatings, 95
Sol–gel silica coatings doped with a pH-sensitive chromophore, 103
Optical, electrical and structural properties of sol gel ZnO:Al coatings, 125
Enhancement of fracture strength of cutted plate glass by the application of SiO_2 sol–gel coatings, 132
Optical and mechanical properties of sol–gel antireflective films for solar energy applications, 170
UV curable hard coatings on plastics, 216
Multilayer NIR reflective coatings on transparent plastic substrates from photopolymerizable nanoparticulate sols, 225
Sol–gel process
Ultraviolet ray absorbing coatings on glass for automobiles, 61
RU (II) sensitized Nb_2O_5 solar cell made by the sol-gel process, 295

Sol–gel coating
Curing of sol–gel coatings on television tubes, 284
Solar cells
Recent developments of silicon thin film solar cells on glass substrates, 241
Texture etched ZnO:Al coated glass substrates for silicon based thin film solar cells, 247
RU (II) sensitized Nb_2O_5 solar cell made by the sol-gel process, 295
Solar reduction
Heat treatment and bending of low-*E* glass, 264
Spin-coating
Ultraviolet ray absorbing coatings on glass for automobiles, 61
Spray coating
Endurable water-repellent glass for automobiles, 274
Sputter targets
Properties of SiO_2 and Si_3N_4 layers deposited by MF twin magnetron sputtering using different target materials, 158
Sputtering
Global market and technology trends on coated glass for architectural, automotive and display applications, 1
Advances in magnetron sputter sources, 15
Design considerations for the AC/DC C-MAG® deposition source and power supply system, 21
TwinMag™II: attempts to improve an excellent sputter tool, 27
High rate reactive sputtering using gas pulsing: a technique for the creation of films onto large, flat substrates, 32
High rate sputter deposition of TiO_2 from TiO_{2-x} target, 57
Properties of SnO_2 films prepared by DC and MF reactive sputtering, 146
Properties of SiO_2 and Si_3N_4 layers deposited by MF twin magnetron sputtering using different target materials, 158
Transparent and conductive aluminum doped zinc oxide films prepared by mid-frequency reactive magnetron sputtering, 164
Characterisation of antireflective TiO_2//SiO_2 coatings by complementary techniques, 176
Advanced characterization tools for thin films in low-*E* systems, 184
Hall current accelerator for pre-treatment of large area glass sheets, 190
Internal stress and adhesion of thin films sputtered onto glass by an in-line sputtering system, 194
Texture etched ZnO:Al coated glass substrates for silicon based thin film solar cells, 247
New low emissivity coating based on TwinMag® sputtered TiO_2 and Si_3N_4 layers, 254
Heat treatment and bending of low-*E* glass, 264
Sputtered tin silicon oxide films for durable solar control coatings, 301
Moisture degradation mechanism of silver-based low-emissivity coatings, 308
Stress
Gas pressures influence on the optical and mechanical properties of Ta_2O_5 films produced by reactive low voltage ion plating (RLVIP), 53
Internal stress and adhesion of thin films sputtered onto glass by an in-line sputtering system, 194
Structural properties
Spin deposition of MoS_x thin films, 119
Optical, electrical and structural properties of sol gel ZnO:Al coatings, 125
Surface morphology
Texture etched ZnO:Al coated glass substrates for silicon based thin film solar cells, 247
Surface roughness
Surface roughness characterization of smooth optical films deposited by ion plating, 141
Advanced characterization tools for thin films in low-*E* systems, 184
Endurable water-repellent glass for automobiles, 274
Mechanical durability of water repellent glass, 279
Surface structure
Subwavelength-structured antireflective surfaces on glass, 73

Ta_2O_5
Gas pressures influence on the optical and mechanical properties of Ta_2O_5 films produced by reactive low voltage ion plating (RLVIP), 53
Tetraethylorthosilicate
The effect of the solvent on the cross-link density of SiO_2 coatings, 95
Thin films
Spin deposition of MoS_x thin films, 119
Tin oxide
Wet chemical deposition of ATO and ITO coatings using crystalline nanoparticles redispersable in solutions, 79
Comparison of spray pyrolyzed FTO, ATO and ITO coatings for flat and bent glass substrates, 109
Properties of SnO_2 films prepared by DC and MF reactive sputtering, 146
Recent developments of silicon thin film solar cells on glass substrates, 241
Sputtered tin silicon oxide films for durable solar control coatings, 301
TiN_xO_y
A new layer system of anti-reflective coating for cathode ray tubes, 235
Titanium dioxide
Masked deposition of decorative coatings on large area glass and plastic sheets, 204
Titanium nitride
Masked deposition of decorative coatings on large area glass and plastic sheets, 204
Three-layer broad-band antireflective coating on web, 212
Titanium oxide
Ex situ and in situ spectroscopic ellipsometry of MF and DC-sputtered TiO_2 and SiO_2 films for process control, 42
High rate sputter deposition of TiO_2 from TiO_{2-x} target, 57
Alternative modification methods for sol–gel coatings of silica, titania and silica–titania using ultraviolet irradiation and water vapor, 91
Characterisation of antireflective TiO_2//SiO_2 coatings by complementary techniques, 176
Comparison of pure and mixed coating materials for AR coatings for use by reactive evaporation on glass and plastic lenses, 180
Low-temperature synthesis of anatase thin films on glass and organic substrates by direct deposition from aqueous solutions, 220

Photocatalytic activity and photoinduced hydrophilicity of titanium dioxide coated glass, 260
Tribology
Spin deposition of MoS_x thin films, 119

Ultraviolet absorption
Ultraviolet ray absorbing coatings on glass for automobiles, 61
UV curable
UV curable hard coatings on plastics, 216

Water repellency
Endurable water-repellent glass for automobiles, 274
Water repellent glass
Mechanical durability of water repellent glass, 279
Water
Alternative modification methods for sol–gel coatings of silica, titania and silica–titania using ultraviolet irradiation and water vapor, 91
Aqueous wet coatings for transparent plastic glazing, 209
Wetting
Aqueous wet coatings for transparent plastic glazing, 209
Photocatalytic activity and photoinduced hydrophilicity of titanium dioxide coated glass, 260

Zinc oxide
Optical, electrical and structural properties of sol gel ZnO:Al coatings, 125
Transparent and conductive aluminum doped zinc oxide films prepared by mid-frequency reactive magnetron sputtering, 164
Recent developments of silicon thin film solar cells on glass substrates, 241
Texture etched ZnO:Al coated glass substrates for silicon based thin film solar cells, 247
Moisture degradation mechanism of silver-based low-emissivity coatings, 308